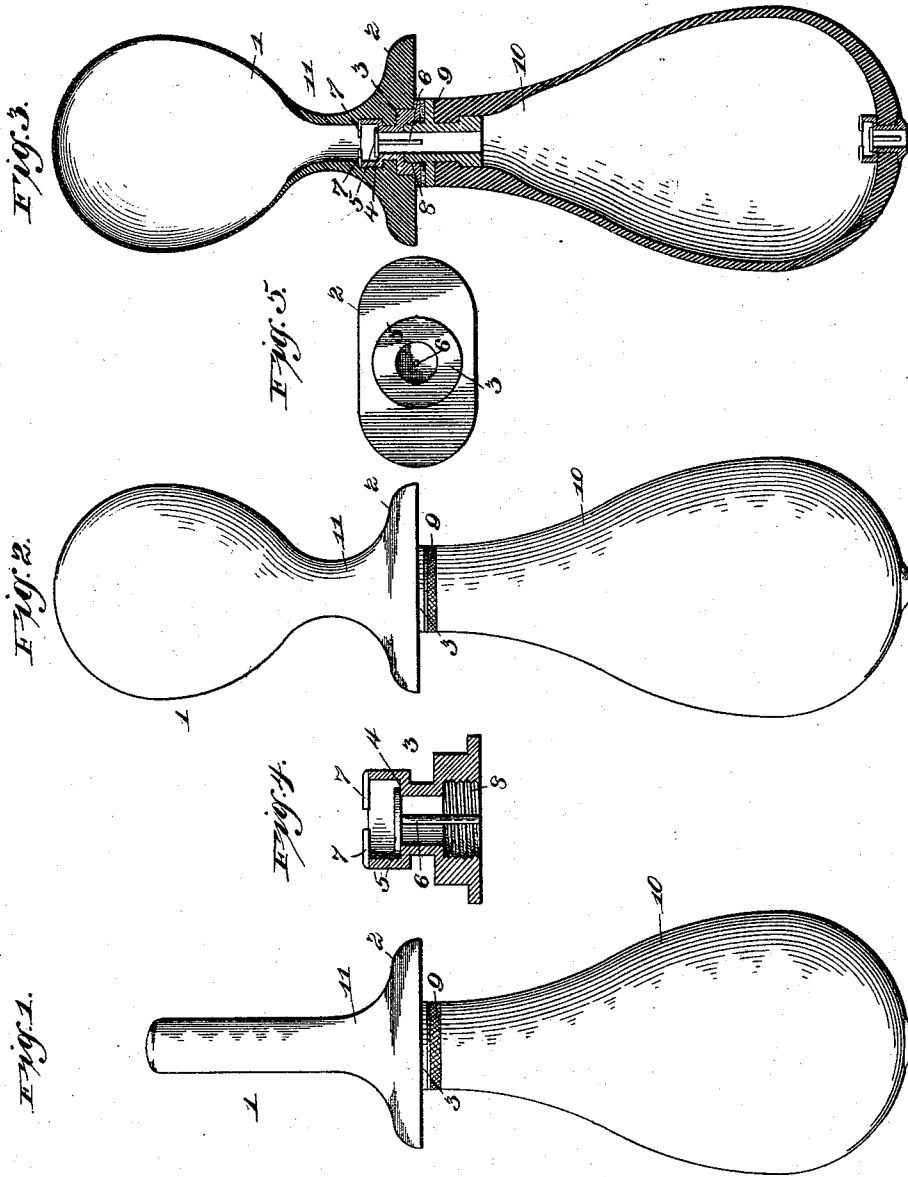


(No Model.)

G. C. ORMEROD.
PILE SUPPORTER.

No. 543,400.

Patented July 23, 1895.



Inventor

Witnesses

Wm. Doyle.
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UNITED STATES PATENT OFFICE.

GEORGE C. ORMEROD, OF ASBURY PARK, NEW JERSEY, ASSIGNOR OF ONE-HALF TO ELISHA STOUT, OF SAME PLACE.

PILE-SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 543,400, dated July 23, 1895.

Application filed January 31, 1895. Serial No. 536,866. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. ORMEROD, a citizen of the United States, residing at Asbury Park, in the county of Monmouth and State of New Jersey, have invented a new and useful Pile-Supporter, of which the following is a specification.

My invention relates to an improvement in a device for supporting or upholding the rectum and the increment incident to piles.

The object of my invention is to uphold the lower portion of the diseased rectum by means of a rubber bulb adapted to be inserted into the anus and to be inflated by air or otherwise expanded therein, thereby sustaining the diseased parts in a position which will afford relief to the sufferer.

My invention consists in an imperforate soft-rubber bulb or distender adapted to be inserted into the anus and provided with a suitable valve, a detachable hand-bulb adapted to be attached thereto for inflating or expanding the inner-supporting bulb, and in certain features and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my improved pile-supporter, showing the supporting-bulb unexpanded or in its normal shape and with the inflating hand-bulb attached. Fig. 2 is a similar view showing the form of the supporting-bulb when expanded. Fig. 3 is a vertical section through both the supporting and hand bulbs, showing the arrangement of valves and the manner of coupling the parts together. Fig. 4 is an enlarged vertical section through one of the valves. Fig. 5 is a plan view of the bottom of the upper bulb, showing the form of the integrally-formed flange.

Similar numerals of reference refer to corresponding parts in the figures of the drawings.

1 represents an imperforate bulb or cylindrical case of soft rubber, provided at its base with a guard or flange 2, preferably elongated or elliptical in shape, for the purpose of holding the bulb 1 in place, this shape being adapted to give greater comfort to the patient.

3 indicates a valve-case of metal, inserted

in the bottom of the bulb 1, as shown. This valve is provided with an internal valve-seat 4, valve 5, and stem 6, the valve being seated downward, and the upward escape thereof being prevented by overhanging lips 7. The valve-case, at its base, is of increased diameter, permitting a bore 8 of sufficient size to receive a perforated coupling-piece 9 of metal in the upper end of an inflating hand-bulb 10. The bore 8 and the coupling-piece 9 are both screw-threaded, as shown, for adapting them to be easily and quickly coupled together. The valve-stem 6 extends downwardly into the large bore 8 in the base of the valve-case 3 to a point about flush with or in the plane of the lower face of said valve-case, the purpose of which will appear.

10 indicates the hand-bulb, which may be of any usual or preferred form. It is provided in its lower end with a valve-case, valve, &c., similar in general construction to the valve-case 3 and valve above described.

In operation, the cylindrical case or bulb 1 is inserted, as above described, with the hand-bulb 10 attached. The latter is then compressed and air or liquid thereby forced into the supporting-bulb 1, which is thus inflated or expanded, as shown in Fig. 2, thereby preventing the accidental displacement of the bulb 1 and supporting the piles in such manner as to afford relief to the patient. The hand-bulb 10 is uncoupled and removed. When it is desired to remove the supporting-bulb, the valve-stem 6 is pushed inward slightly, thus permitting the escape of the air or liquid from said bulb, when the latter may be easily withdrawn.

By referring to Fig. 3 it will be noticed that the flanged base 2 of the upper supporting-bulb is considerably thickened, as is also the lower portion 11 of the supporting-bulb itself. The object of this is to give said flange sufficient body to be self-supporting, and to prevent the lower portion 11 of the bulb 1, just above said flange, from expanding at this point.

Having thus described my invention, what I claim is—

1. A supporting device adapted to the use specified, the same consisting of a bulb or

- case of soft rubber, a flanged base formed integral therewith, a metallic valve-case embedded in said flanged base, and a valve arranged within said case and adapted to admit air or liquid to said bulb for expanding the same, and a stem or rod terminating within or flush with the mouth of the valve-case for unseating the valve, substantially as and for the purpose described.
- 10 2. A supporting device adapted to the use specified, the same consisting of a bulb of soft rubber, a flanged integrally formed base for preventing displacement thereof, and a valve case and valve for admitting air or
- 15 liquid to the said bulb located entirely within said flanged base, said valve case being internally screw-threaded to receive the threaded nozzle or coupling piece of a detachable

hand-bulb for inflating or expanding said supporting bulb, substantially as specified. 20

3. A device adapted for the purpose described, comprising the supporting-bulb 1 of soft rubber, the flanged base 2 for keeping the same in place, made thicker than the main body of the bulb, the thickened lower 25 portion 11 of the bulb for preventing expansion at this point, and a valve adapting the bulb to remain inflated, substantially as set forth.

In testimony that I claim the foregoing as 30 my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE C. ORMEROD.

Witnesses:

JOHN H. SIGGERS,
E. G. SIGGERS.